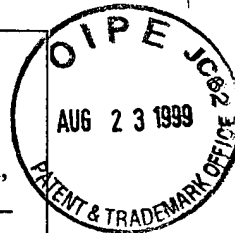


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By: Kim M. Goplen



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**AUG 26 1999**

Patenting Division  
16

PATENT  
Attorney Docket No. 17634-000510

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the application of:

Brian R. Murphy et al.

Application No.: 08/892,403

Filed: July 15, 1997

For: PRODUCTION OF ATTENUATED  
RESPIRATORY SYNCYTIAL  
VIRUS VACCINES FROM  
CLONED NUCLEOTIDE  
SEQUENCES

Examiner: B. Brumback

Art Unit: 1643

**FORMAL DRAWINGS TRANSMITTAL**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to the Notice of Allowability dated May 21, 1999, Applicants submit 21 sheets of formal drawings to be made of record in the above-identified case.

Respectfully submitted,

Dated: 20 August 1999

By: Brian W. Poor  
Brian W. Poor  
Reg. No. 32,928


TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, CA 94111  
(206) 467-9600  
SE 5000837 v1

1D08892403



# RTIS APPLICATION COVER SHEET

CWU	TEAM LOCATION	TEXT TEAM
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 SERIAL NO. 08892403	CHECK DIGIT	WEEK DATE 11.1.99	NO. OF PAGES	NO. OF CLAIMS	DATE EDITED 11.3.99
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EDITOR'S ID KH	EDITOR'S REMARKS EDITED: Drawings - 85 B, Correspondence New papers added (22) formal drawings

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	A
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	
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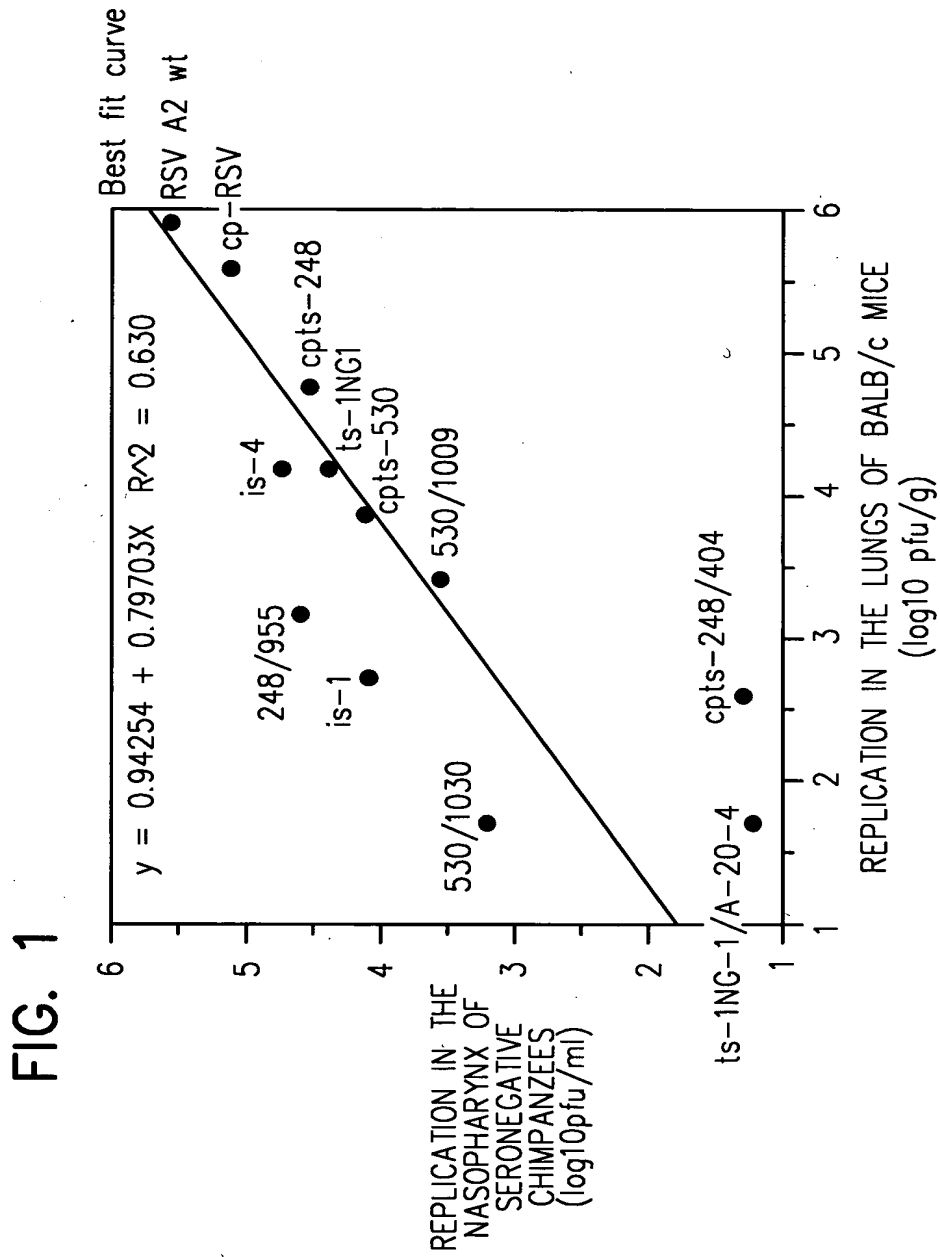


FIG. 2

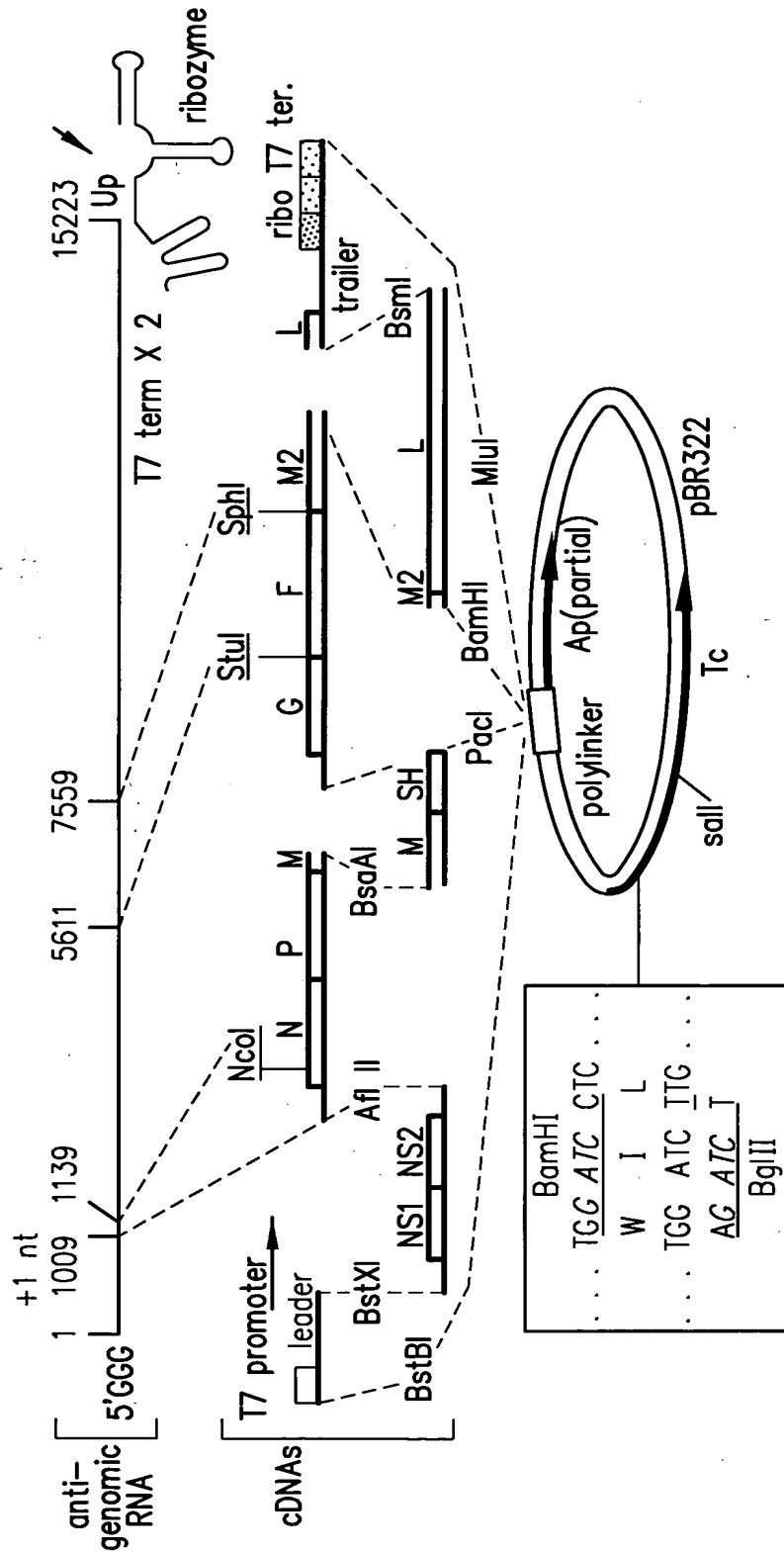


FIG. 3

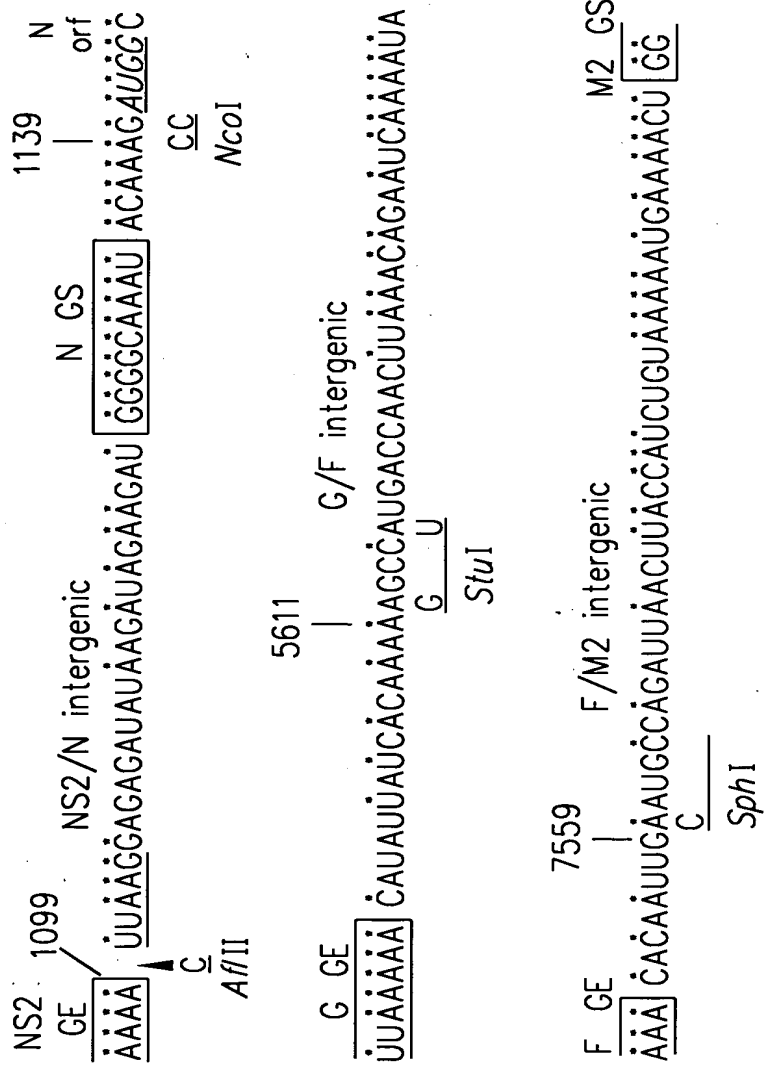


FIG. 4A

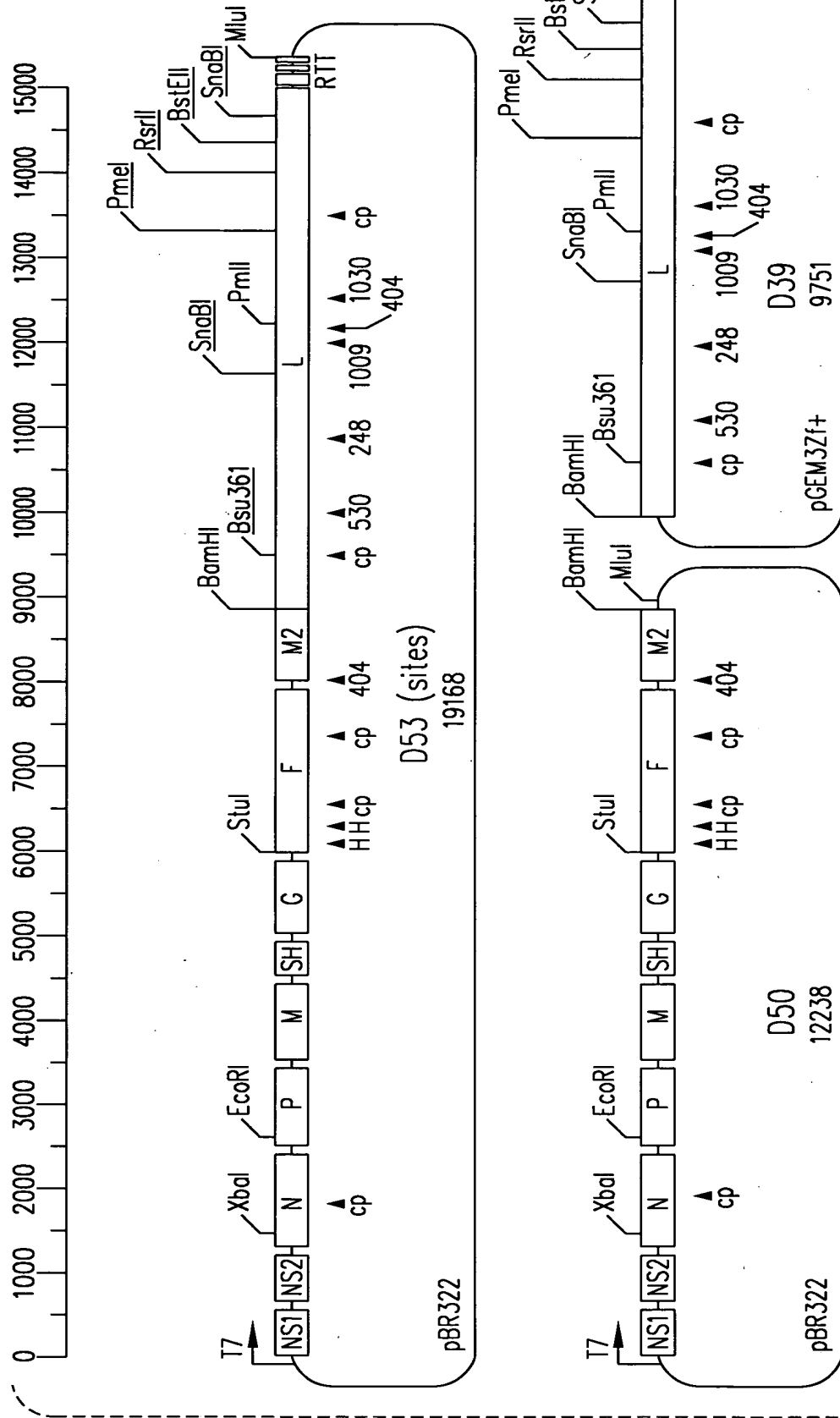
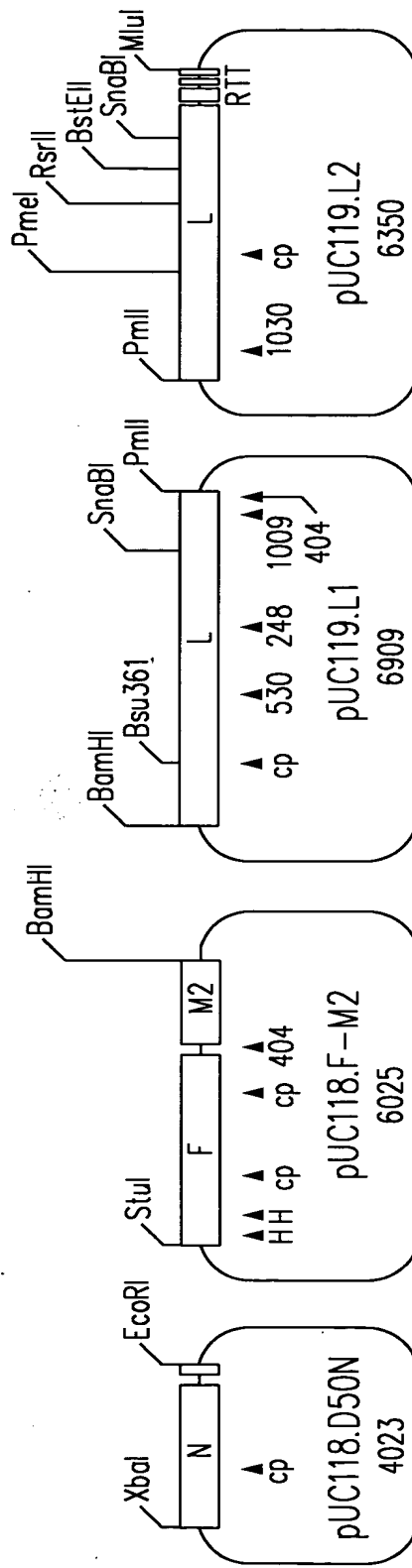


FIG. 4B



Reduction in virus titer  
(log<sub>10</sub>) pfu at 40°C  
compared to 32°C

FIG. 5

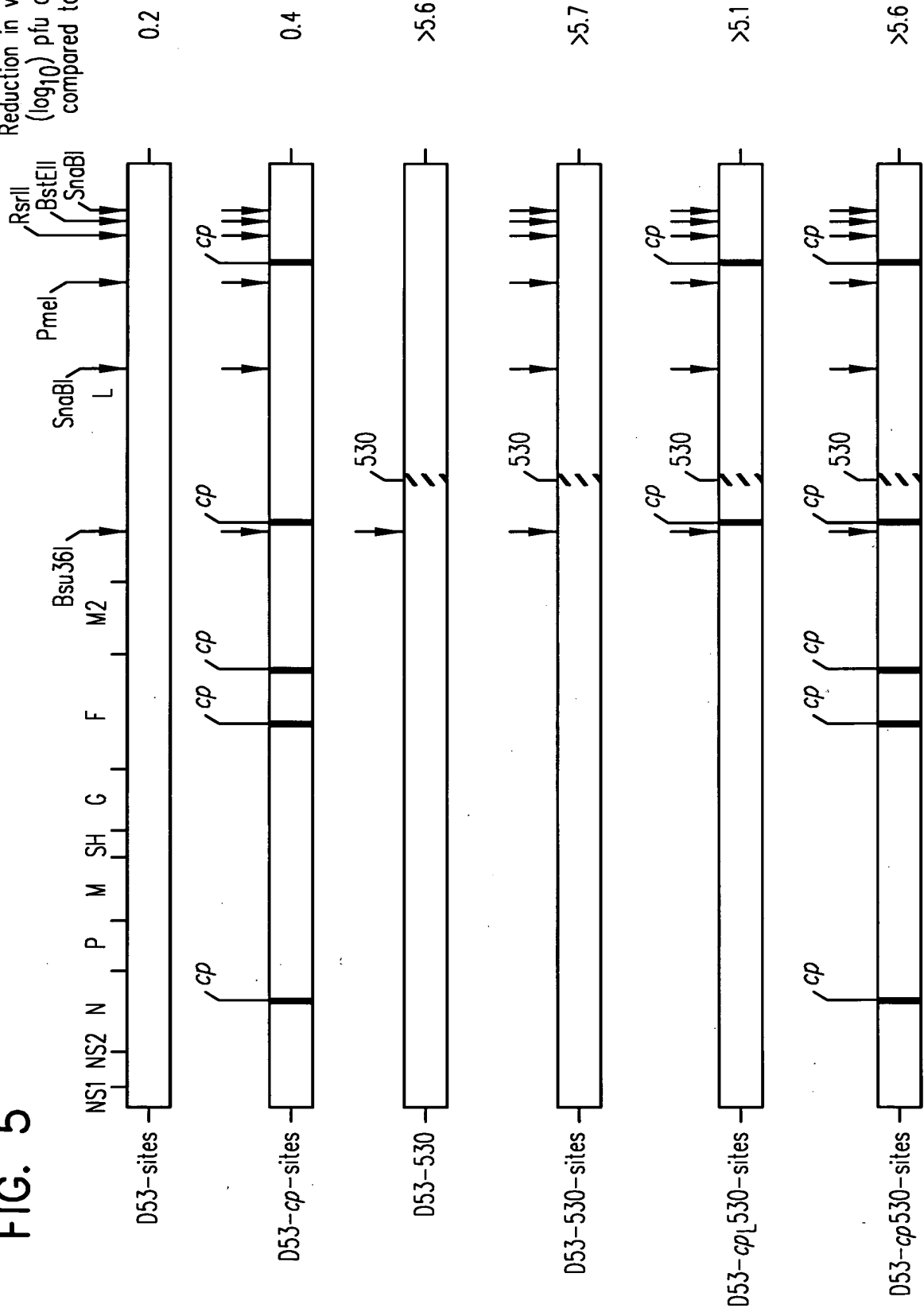




FIG. 6

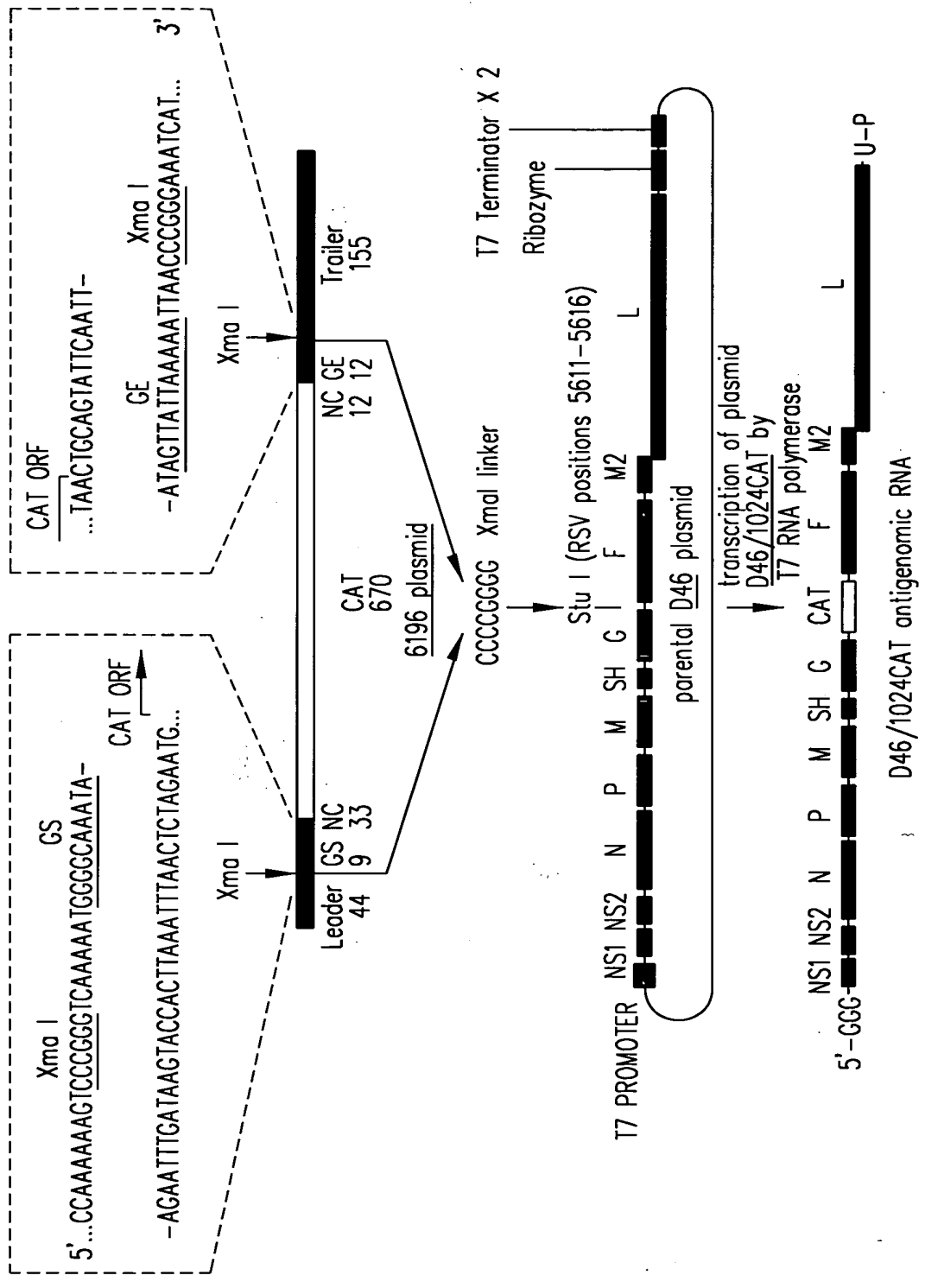


FIG. 7A

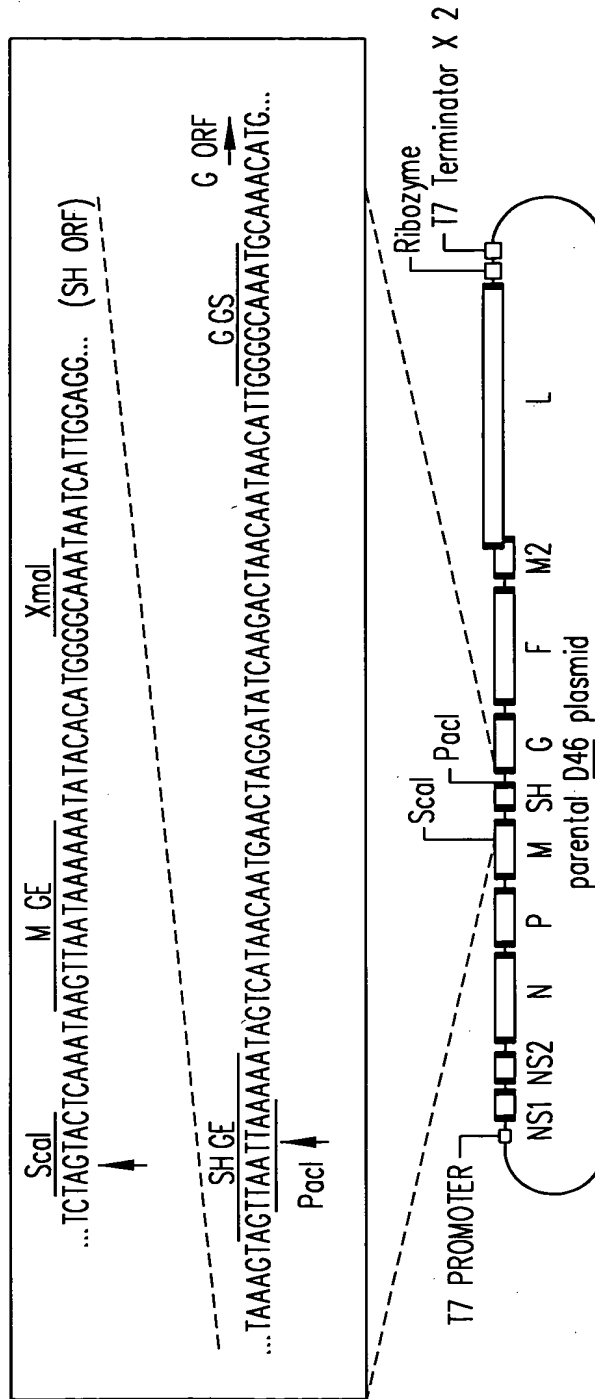


FIG. 7B

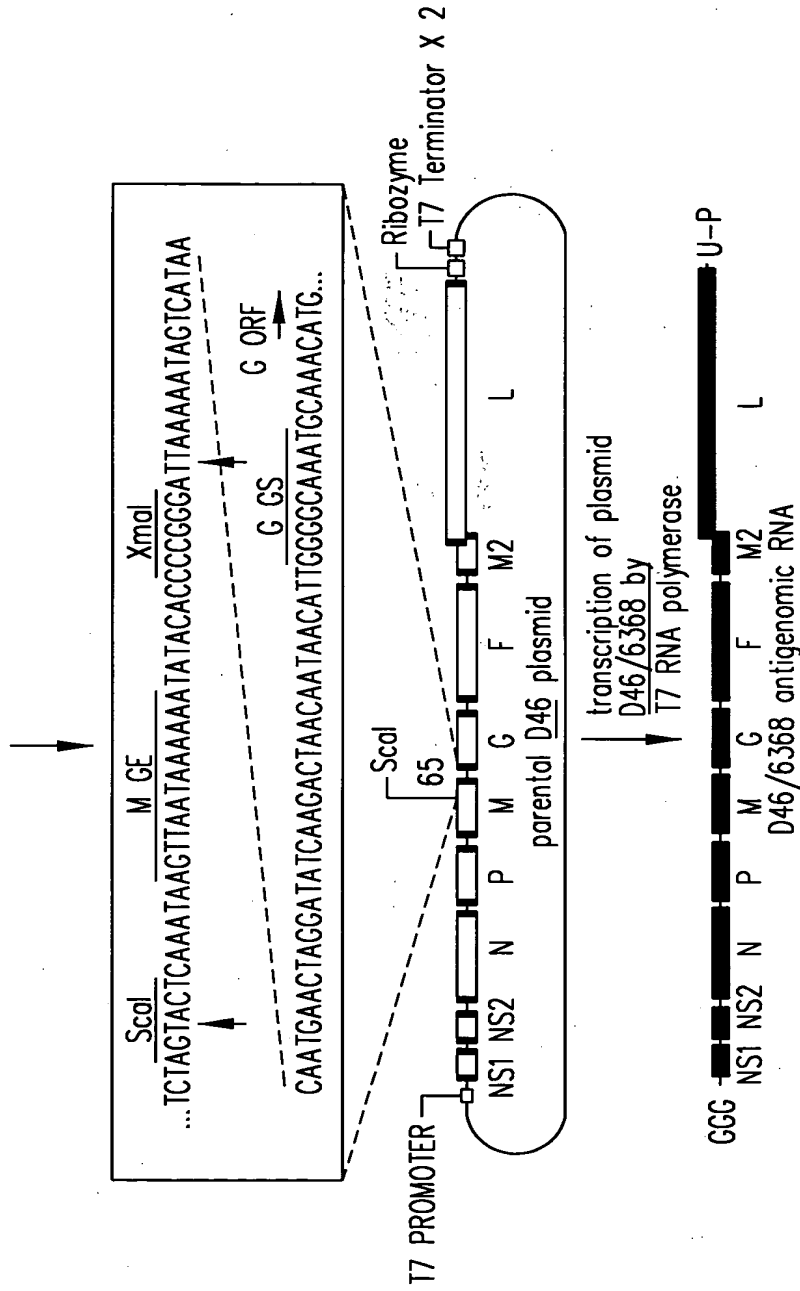


FIG. 8

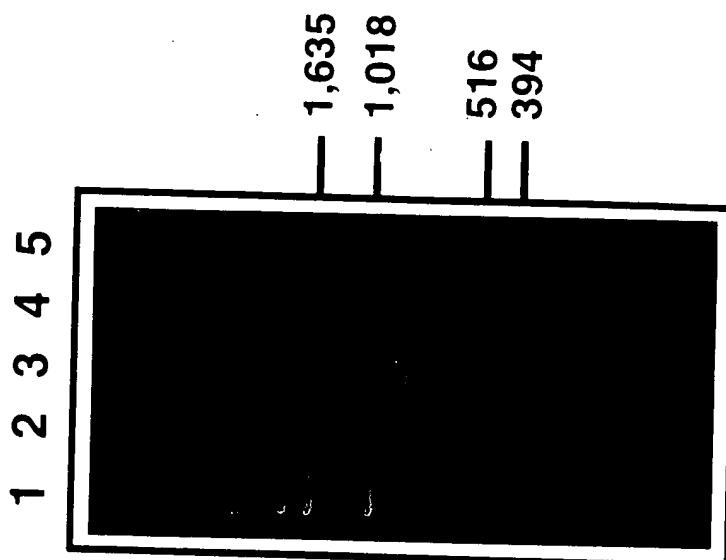
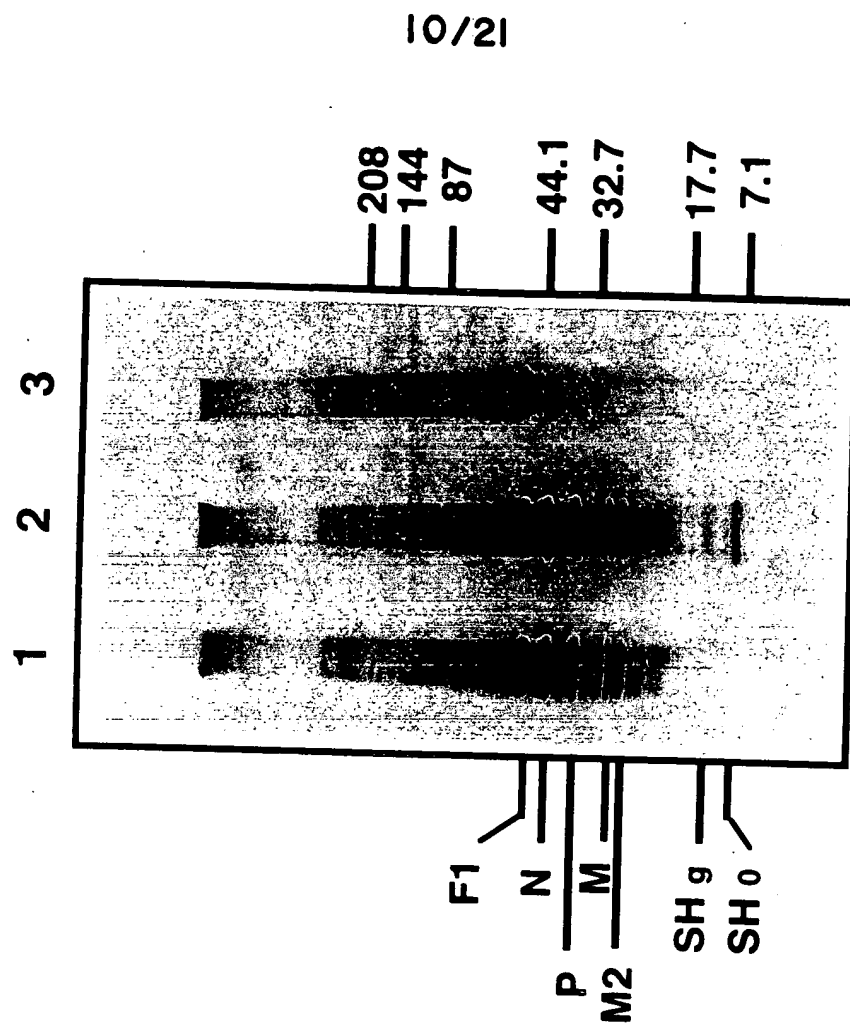
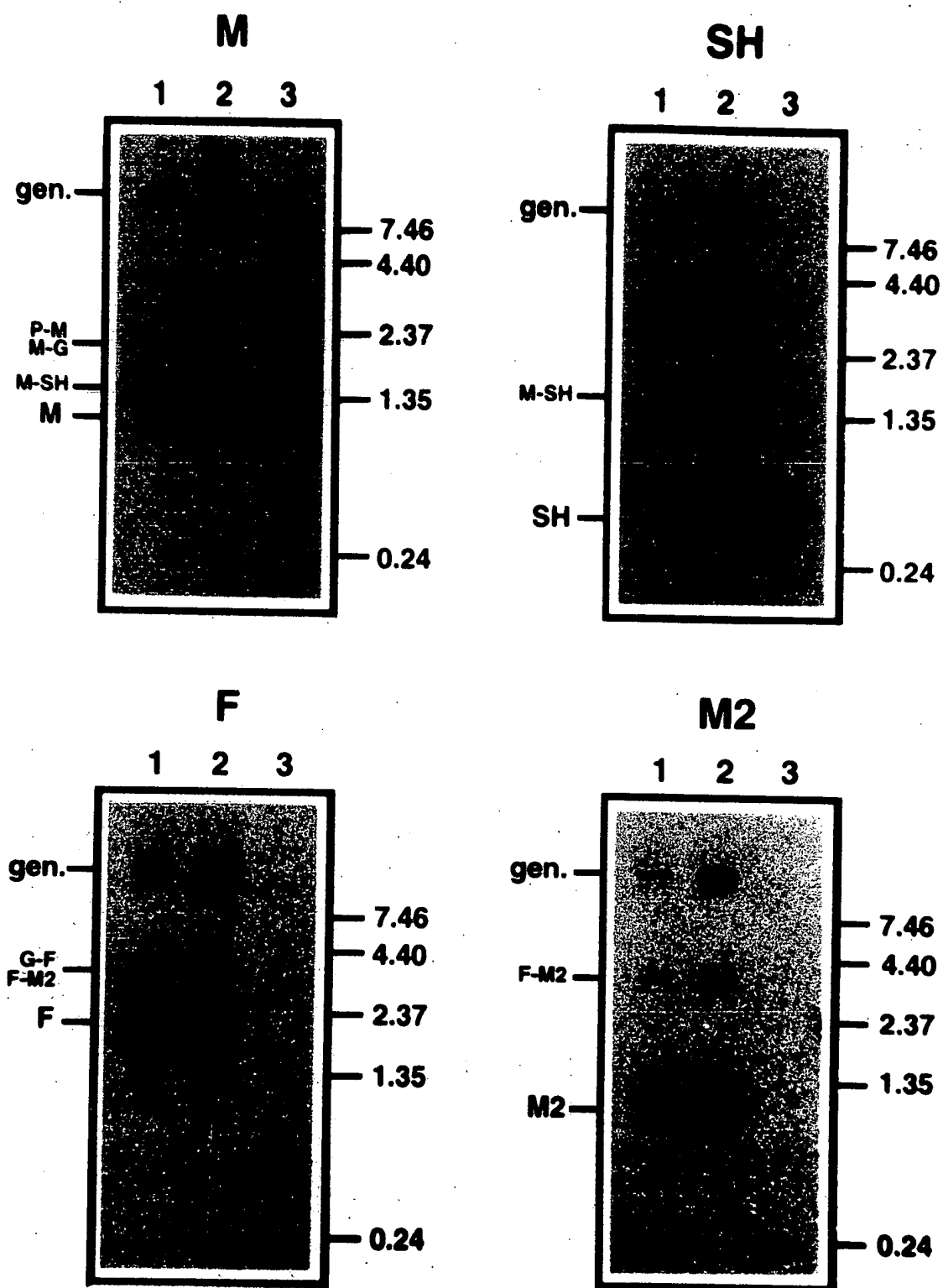


FIG. 10



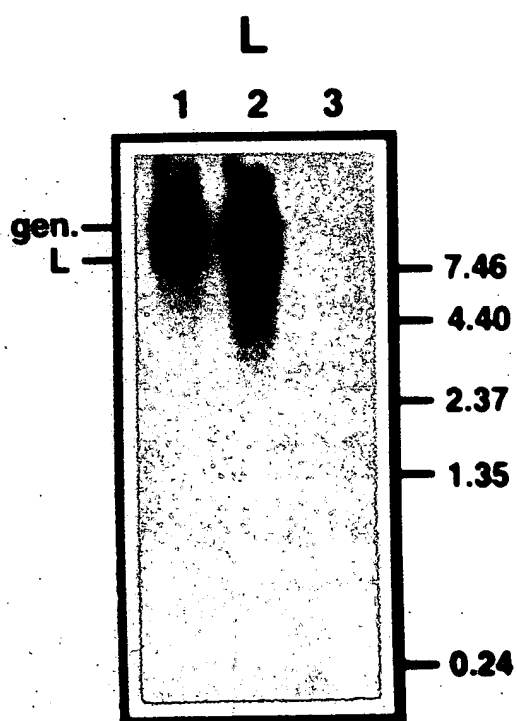
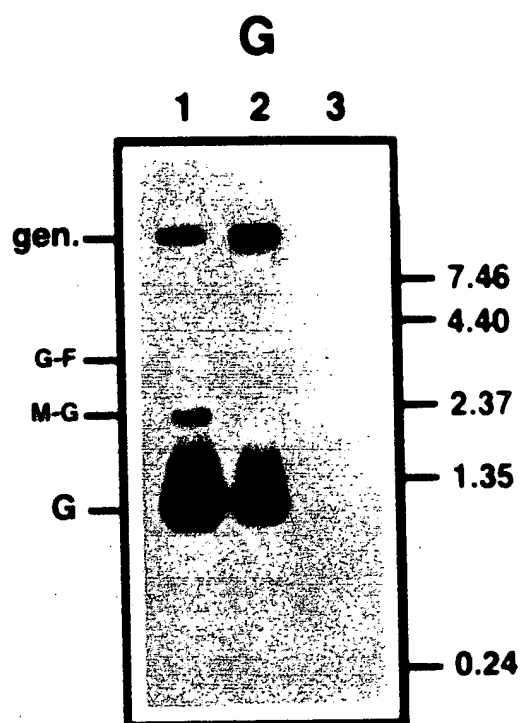
11/21

FIG. 9A



12/21

FIG. 9B



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13/21

FIG. 11

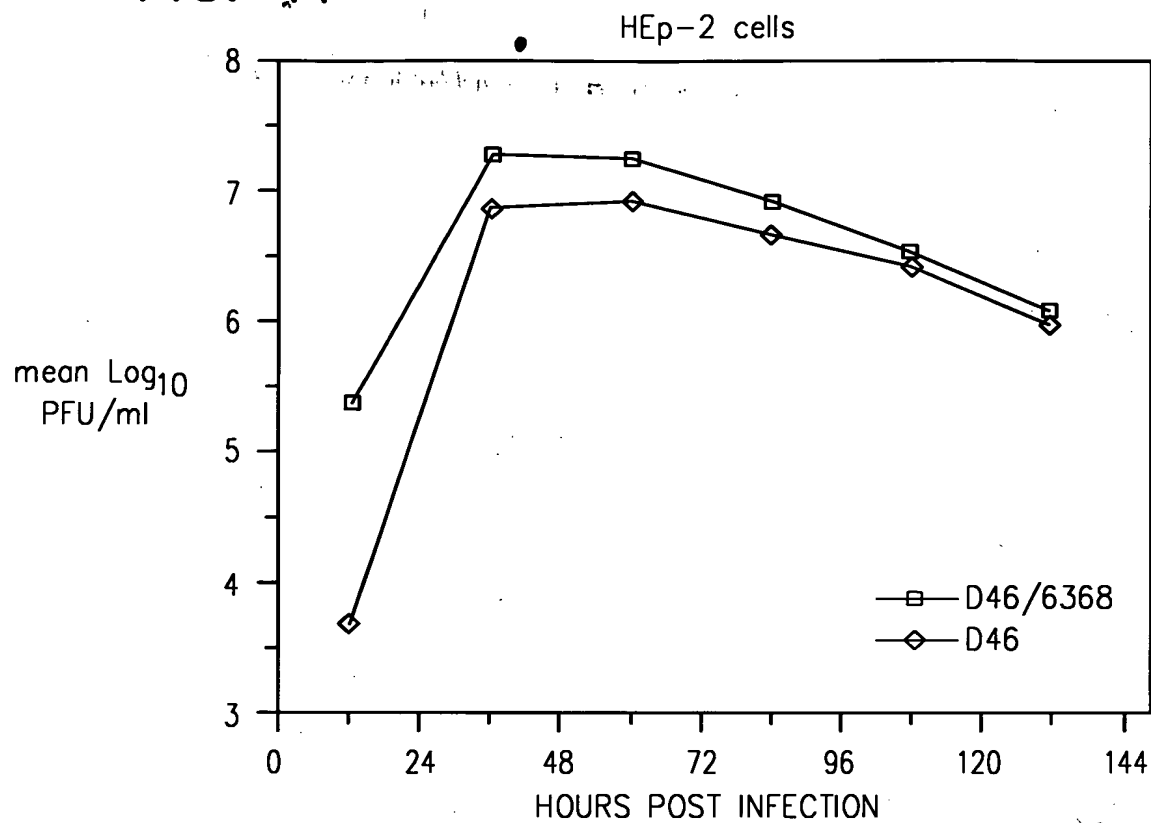
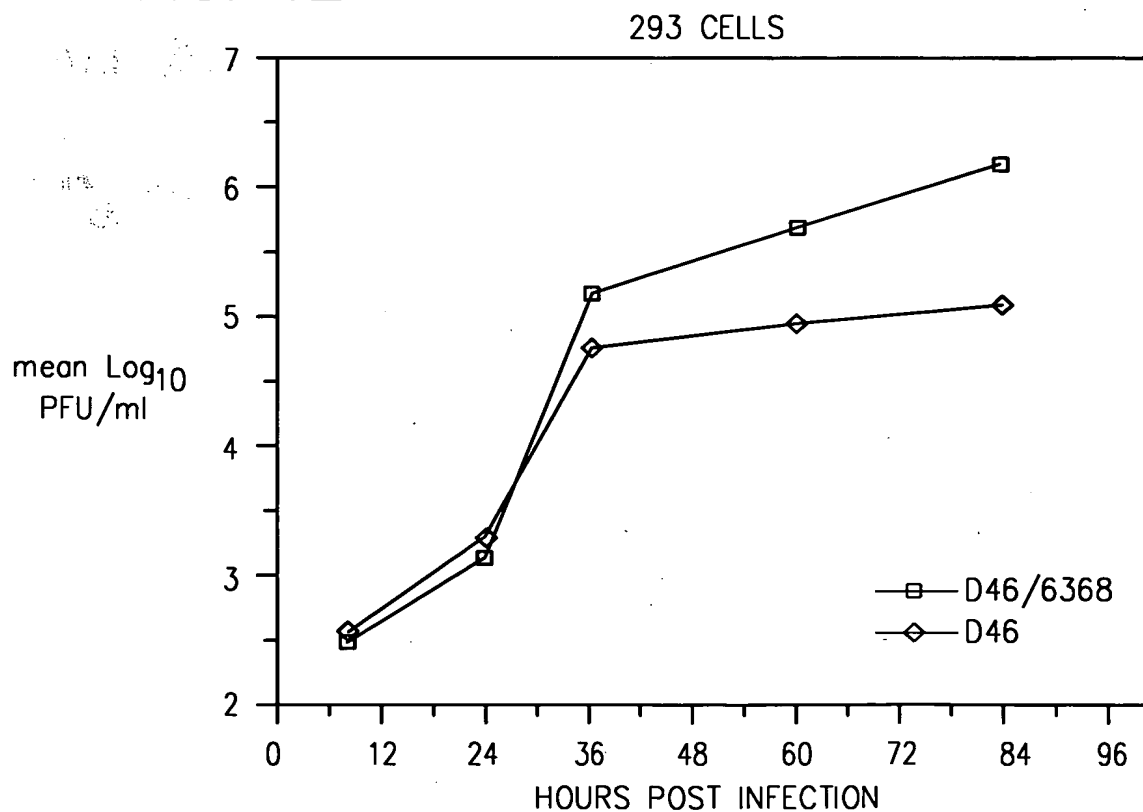


FIG. 12



14/21

FIG. 13

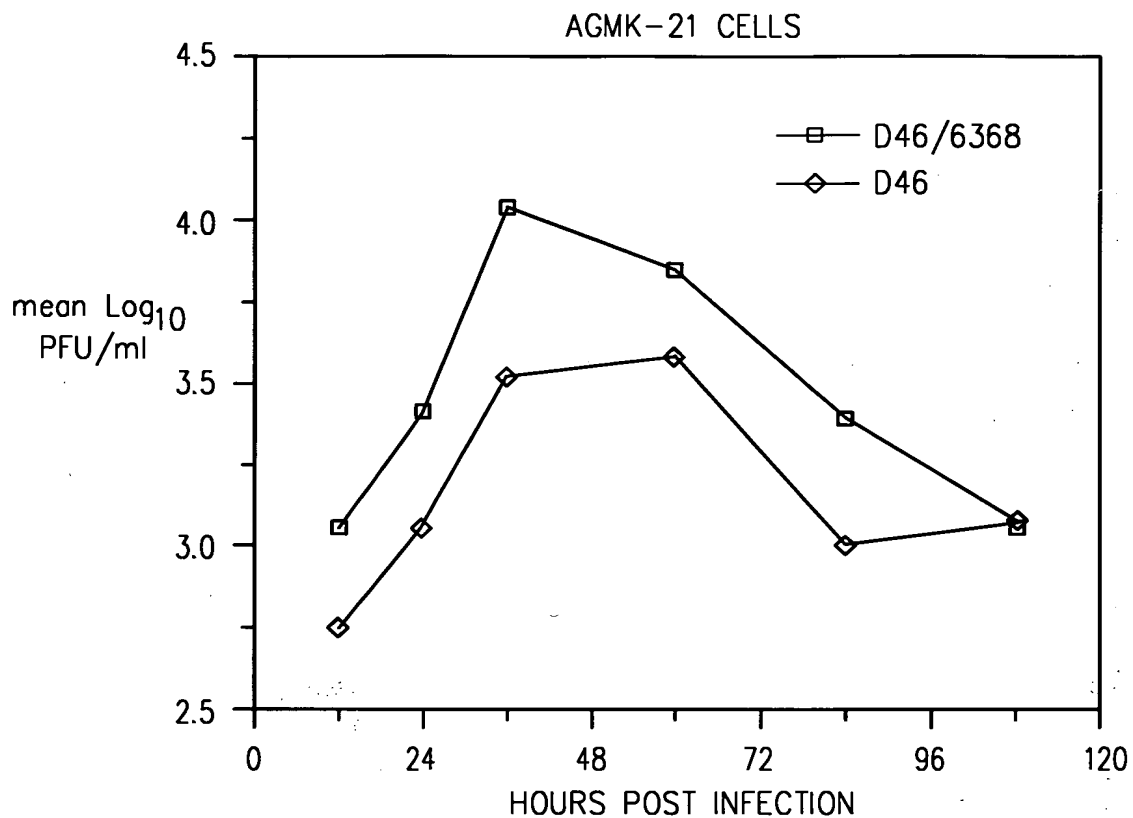


FIG. 14

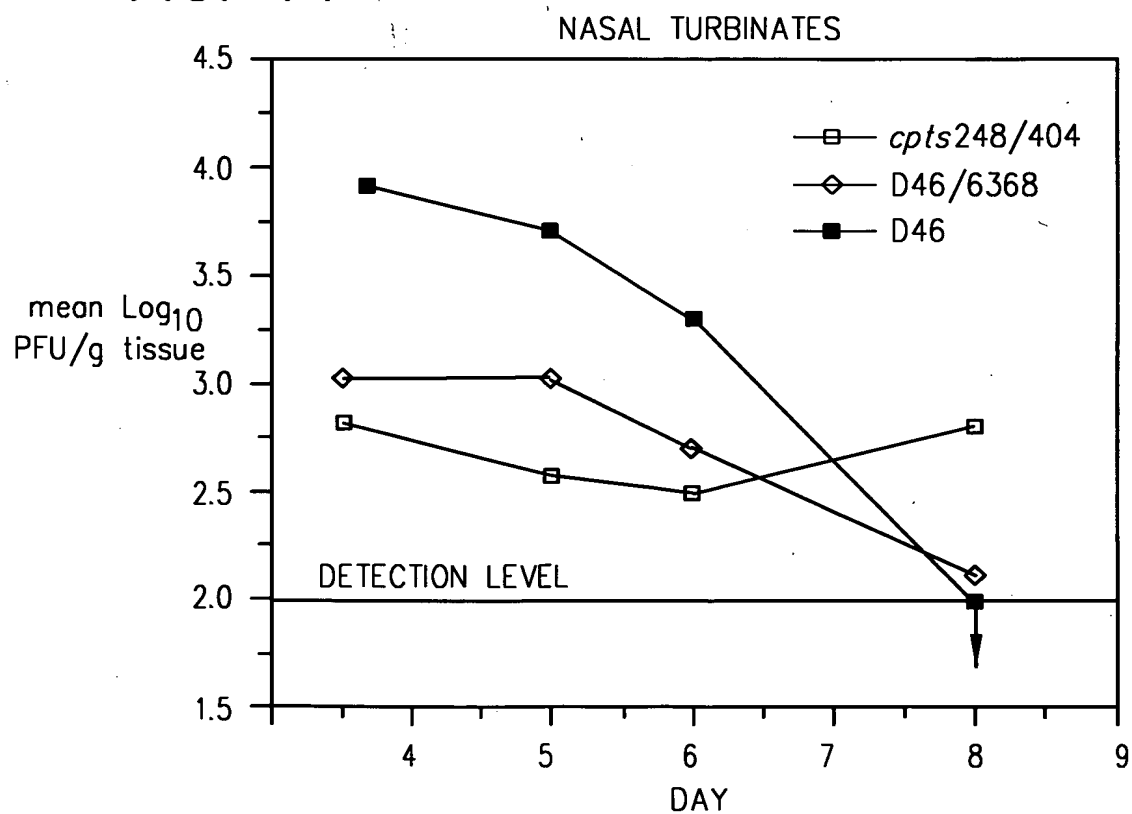




FIG. 15

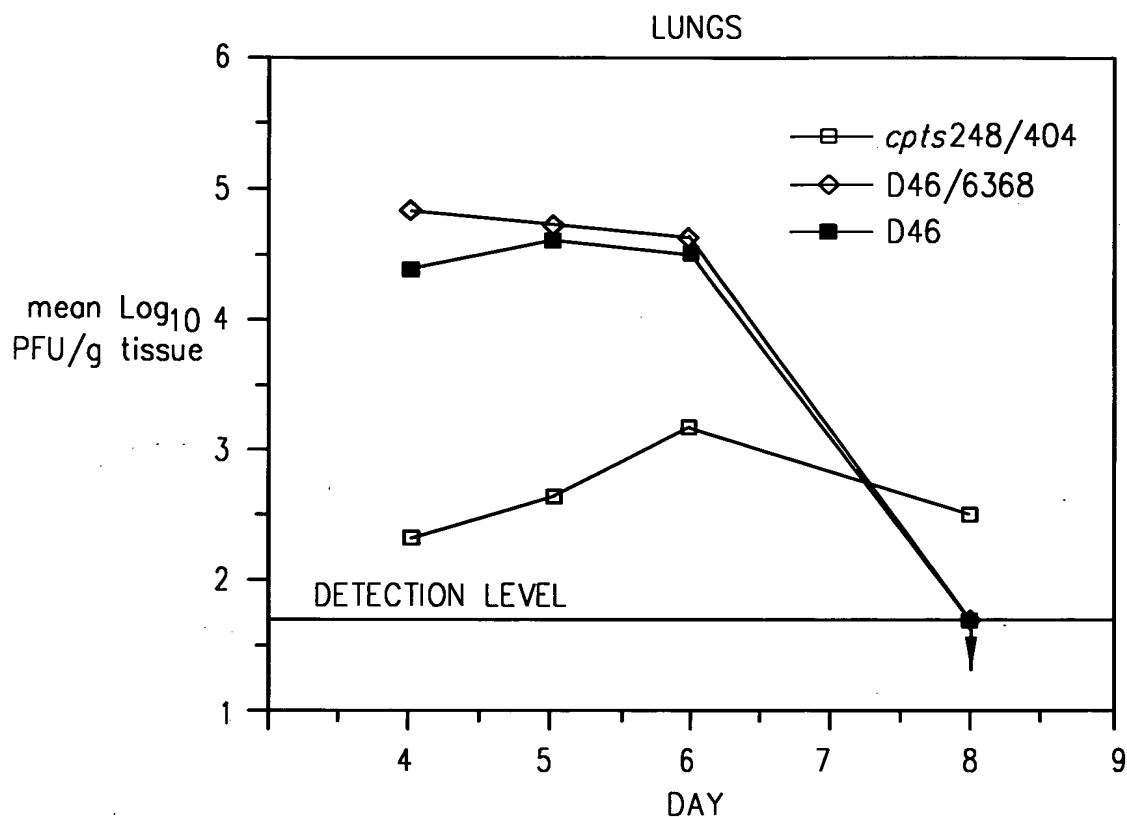


FIG. 16

The SH-minus mutant has a steeper gradient of polar transcription

Relative mRNA abundance: SH-minus/wild type				
M	G	F	M2	L
1.1	1.3	0.61	0.32	0.17

Positions of genes in 3'-5' map				
	5	6	7	10
WT:	3'-M	-SH	-G	-F-M2-L
	5	6	9	
SH-minus:	3'-M	----	G	-F-M2-L

FIG. 17

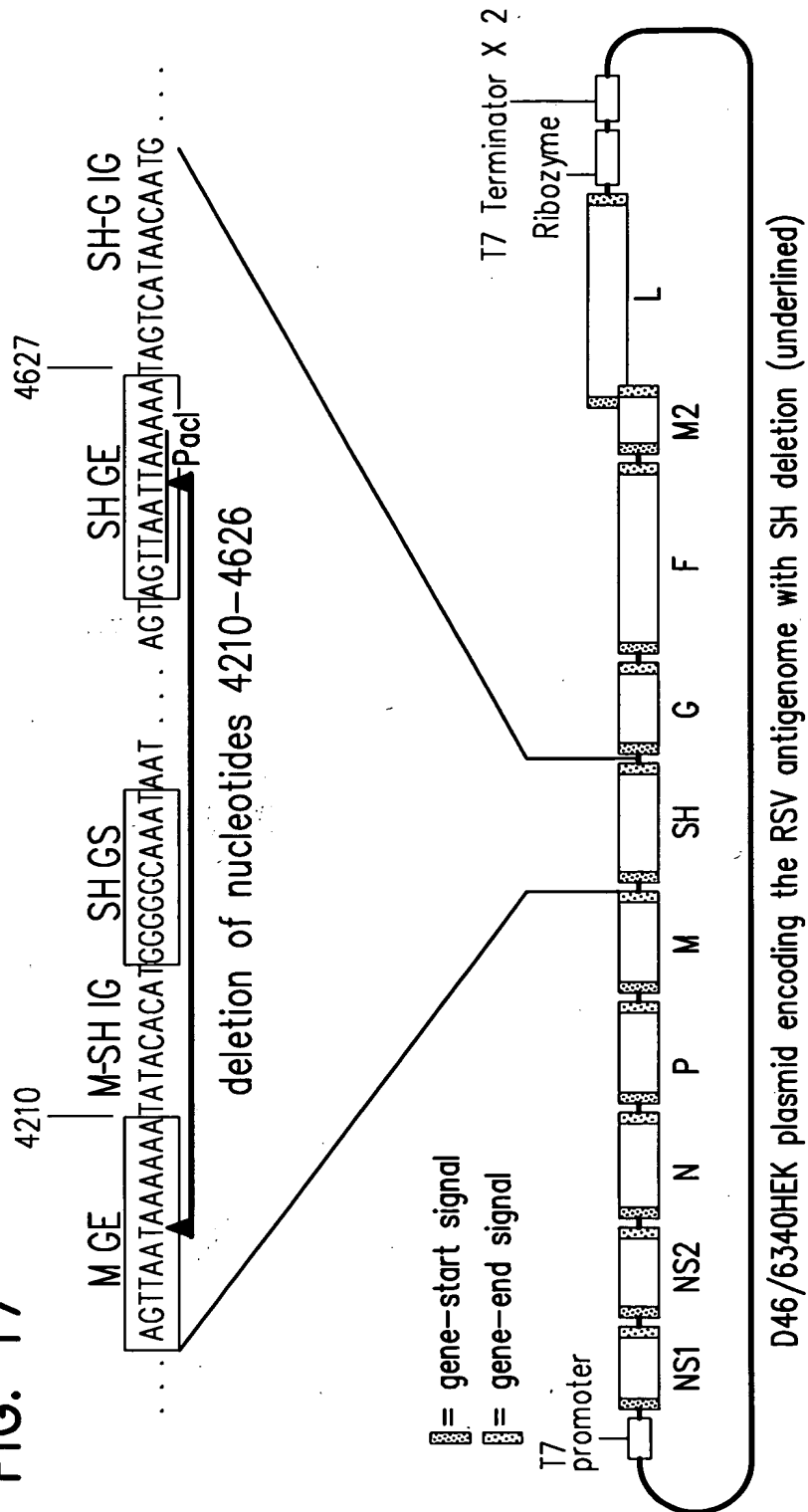
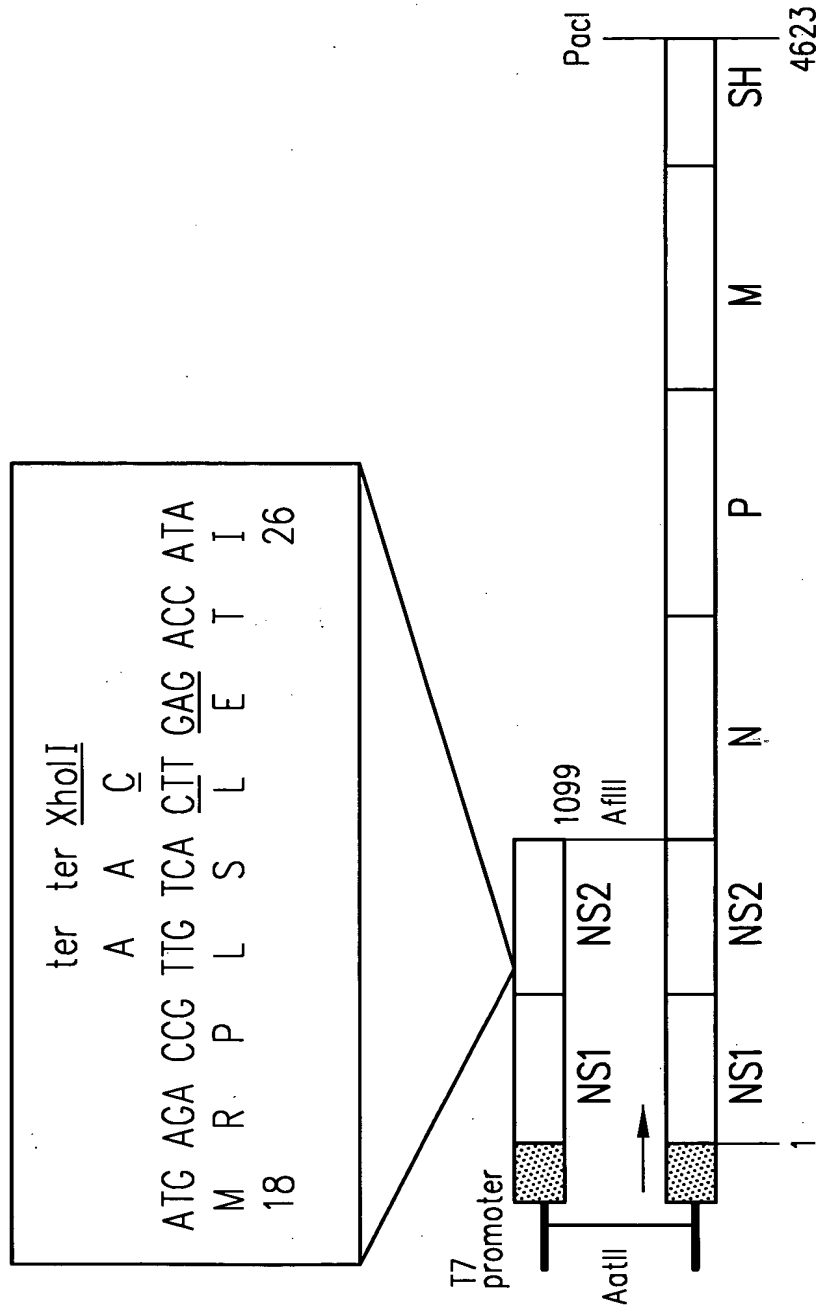


FIG. 18



18/21

FIG. 19

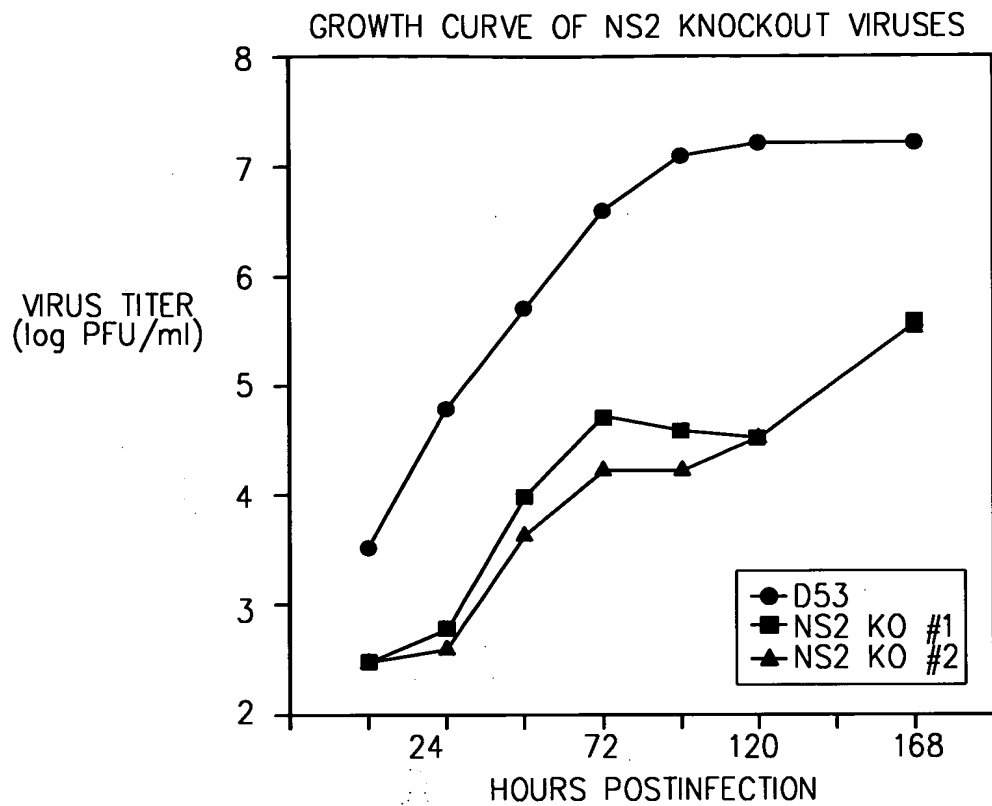


FIG. 24

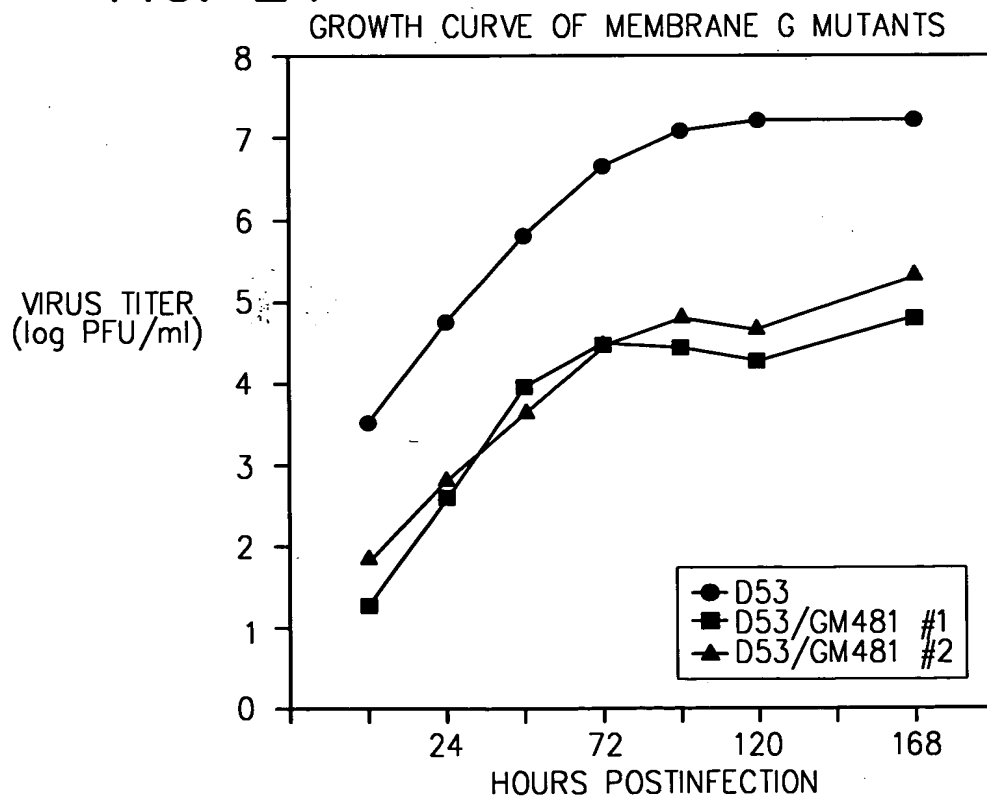


FIG. 20

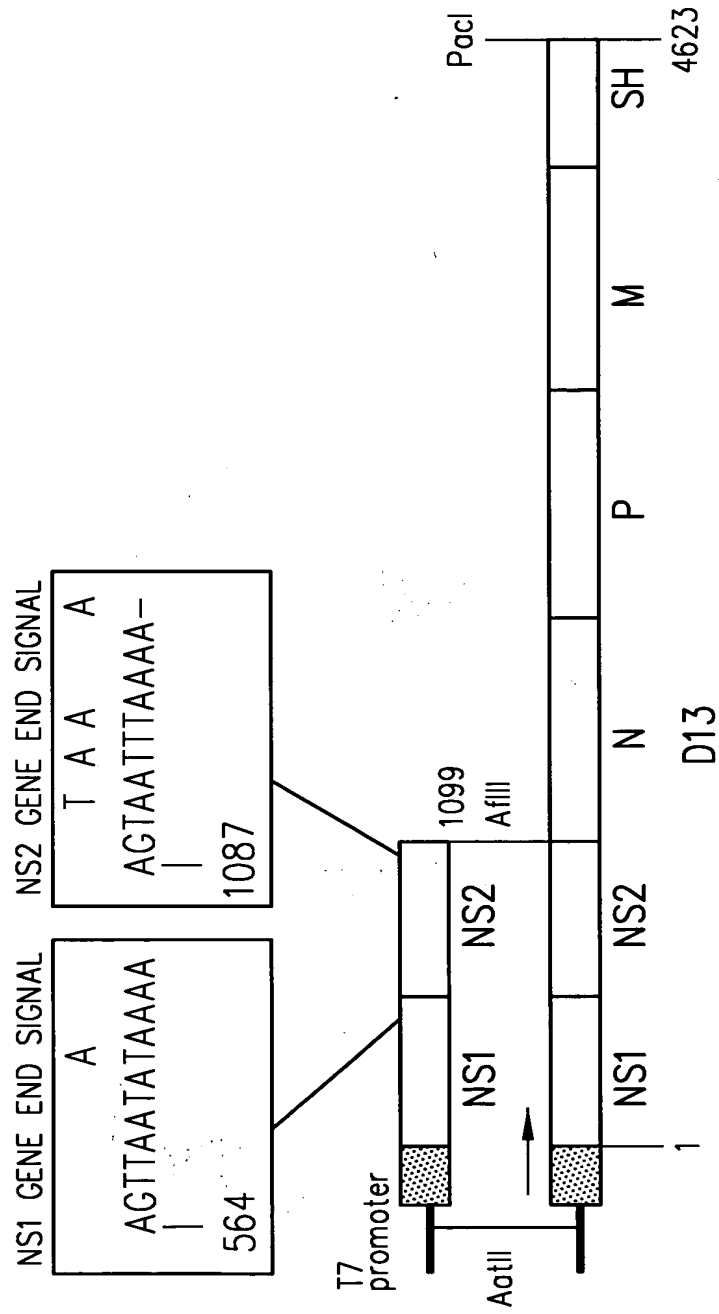


FIG. 21

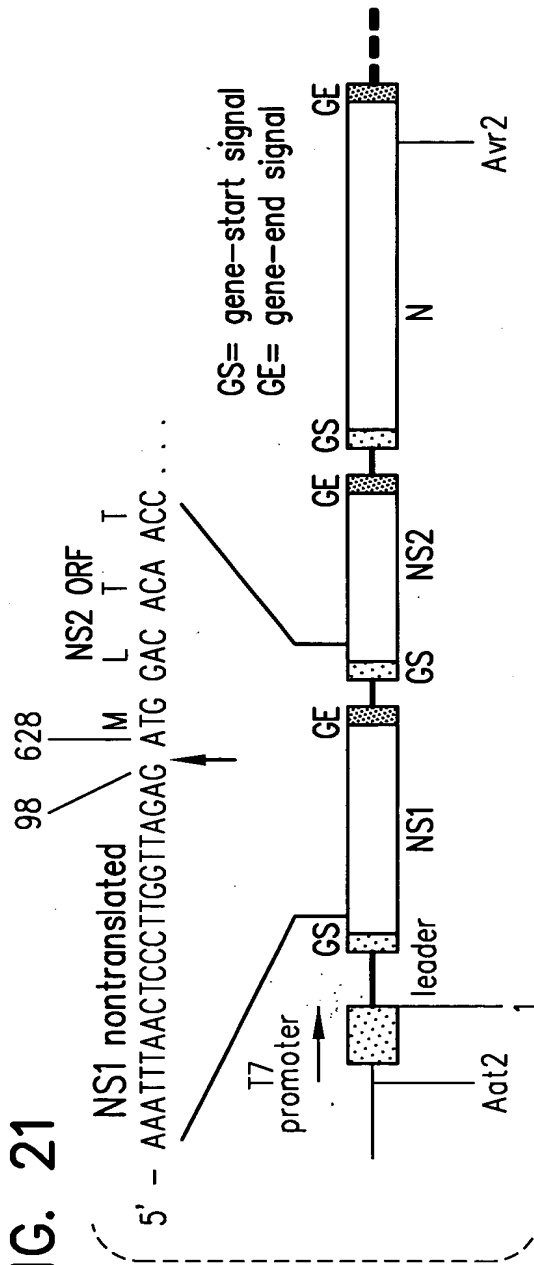


FIG. 22

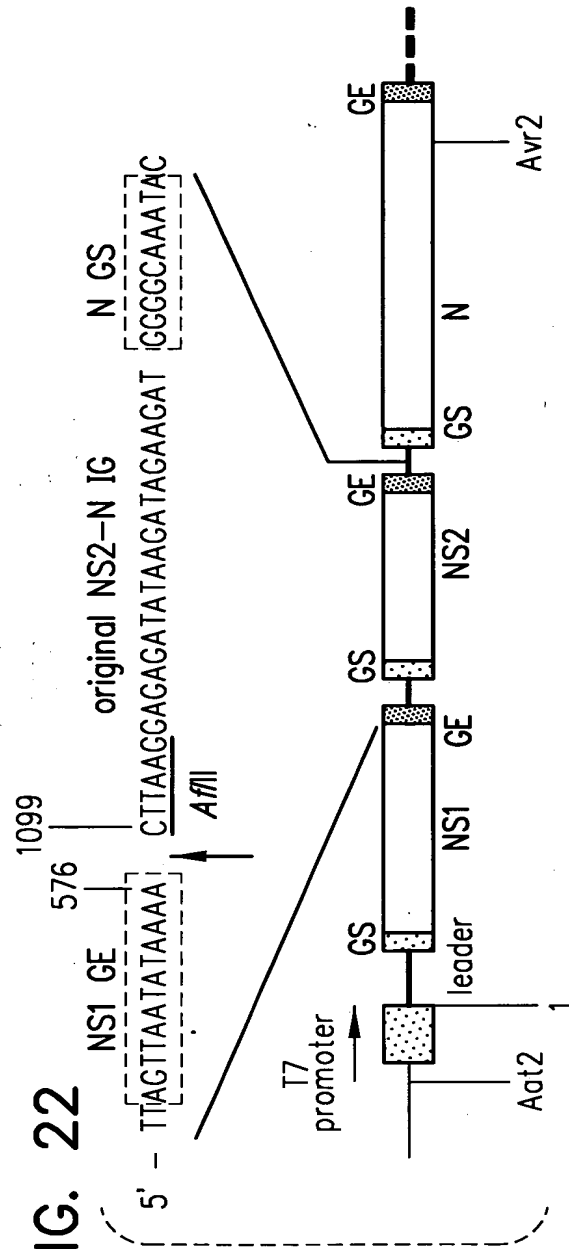


FIG. 23

